# 3 H.P. Single-Stage Dust Collector

(Model 50-852, three phase) (Model 50-853, single phase)



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To learn more about DELTA MACHINERY visit our website at: www.deltamachinery.com.

For Parts, Service, Warranty or other Assistance,

please call 1-800-223-7278 (In Canada call 1-800-463-3582).

## ENERAL SAFETY RULES

Woodworking can be dangerous if safe and proper operating procedures are not followed. As with all machinery, there are certain hazards involved with the operation of the product. Using the machine with respect and caution will considerably lessen the possibility of personal injury. However, if normal safety precautions are overlooked or ignored, personal injury to the operator may result. Safety equipment such as guards, push sticks, hold-downs, featherboards, goggles, dust masks and hearing protection can reduce your potential for injury. But even the best guard won't make up for poor judgment, carelessness or inattention. Always use common sense and exercise caution in the workshop. If a procedure feels dangerous, don't try it. Figure out an alternative procedure that feels safer. REMEMBER: Your personal safety is your responsibility.

This machine was designed for certain applications only. Delta Machinery strongly recommends that this machine not be modified and/or used for any application other than that for which it was designed. If you have any questions relative to a particular application, DO NOT use the machine until you have first contacted Delta to determine if it can or should be performed on the product.

> **Technical Service Manager Delta Machinery** 4825 Highway 45 North Jackson, TN 38305

(IN CANADA: 505 SOUTHGATE DRIVE, GUELPH, ONTARIO N1H 6M7)

### NATION WARNING: FAILURE TO FOLLOW THESE RULES MAY RESULT IN SERIOUS PERSONAL INJURY

- 1. FOR YOUR OWN SAFETY, READ INSTRUCTION MANUAL BEFORE OPERATING THE TOOL. Learn the tool's application and limitations as well as the specific hazards peculiar to it.
- 2. **KEEP GUARDS IN PLACE** and in working order.
- 3. ALWAYS WEAR EYE PROTECTION. Wear safety glasses. Everyday eyeglasses only have impact resistant lenses; they are not safety glasses. Also use face or dust mask if cutting operation is dusty. These safety glasses must conform to ANSI Z87.1 requirements. Note: Approved glasses have Z87 printed or stamped on them.
- 4. REMOVE ADJUSTING KEYS AND WRENCHES. Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it "on".
- 5. **KEEP WORK AREA CLEAN**. Cluttered areas and benches invite accidents
- 6. DON'T USE IN DANGEROUS ENVIRONMENT. Don't use power tools in damp or wet locations, or expose them to rain. Keep work area well-lighted.
- 7. **KEEP CHILDREN AND VISITORS AWAY**. All children and visitors should be kept a safe distance from work area.
- 8. MAKE WORKSHOP CHILDPROOF with padlocks. master switches, or by removing starter keys.
- 9. **DON'T FORCE TOOL**. It will do the job better and be safer at the rate for which it was designed.
- 10. **USE RIGHT TOOL**. Don't force tool or attachment to do a job for which it was not designed.
- 11. **WEAR PROPER APPAREL**. No loose clothing, gloves, neckties, rings, bracelets, or other jewelry to get caught in moving parts. Nonslip footwear is recommended. Wear protective hair covering to contain long hair.
- 12. **SECURE WORK**. Use clamps or a vise to hold work when practical. It's safer than using your hand and frees both hands to operate tool.
- 13. DON'T OVERREACH. Keep proper footing and balance at all times.
- 14. MAINTAIN TOOLS IN TOP CONDITION. Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.

- 15. **DISCONNECT TOOLS** before servicing and when changing accessories such as blades, bits, cutters, etc.
- 16. **USE RECOMMENDED ACCESSORIES**. The use of accessories and attachments not recommended by Delta may cause hazards or risk of injury to persons.
- 17. REDUCE THE RISK OF UNINTENTIONAL STARTING. Make sure switch is in "OFF" position before plugging in power cord. In the event of a power failure, move switch to the "OFF" position.
- 18. **NEVER STAND ON TOOL**. Serious injury could occur if the tool is tipped or if the cutting tool is accidentally contacted.
- 19. **CHECK DAMAGED PARTS**. Before further use of the tool, a guard or other part that is damaged should be carefully checked to ensure that it will operate properly and perform its intended function - check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.
- 20. DIRECTION OF FEED. Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.
- 21. NEVER LEAVE TOOL RUNNING UNATTENDED. TURN POWER OFF. Don't leave tool until it comes to a complete stop.
- 22. STAY ALERT, WATCH WHAT YOU ARE DOING, AND USE COMMON SENSE WHEN OPERATING A POWER TOOL. DO NOT USE TOOL WHILE TIRED OR UNDER THE INFLUENCE OF DRUGS, ALCOHOL, OR MEDICATION. A moment of inattention while operating power tools may result in serious personal injury.
- 23. MAKE SURE TOOL IS DISCONNECTED FROM POWER SUPPLY while motor is being mounted, connected or reconnected.
- 24. THE DUST GENERATED by certain woods and wood products can be injurious to your health. Always operate machinery in well ventilated areas and provide for proper dust removal. Use wood dust collection systems whenever possible.

SAVE THESE INSTRUCTIONS. Refer to them often and use them to instruct others.

## ADDITIONAL SAFETY RULES FOR **DUST COLLECTORS**



WARNING: FAILURE TO FOLLOW THESE RULES MAY RESULT IN SERIOUS PERSONAL INJURY.

- 1. DO NOT OPERATE THIS MACHINE until it is assembled and installed according to the instructions.
- 2. OBTAIN ADVICE FROM YOUR SUPERVISOR, instructor, or another qualified person if you are not familiar with the operation of this machine.
- 3. FOLLOW ALL WIRING CODES and recommended electrical connections.
- 4. **DO NOT** leave the dust collector plugged into the electrical outlet. Unplug dust collector from the outlet when not in use and before servicing, changing bags, unclogging and cleaning.
- 5. **ALWAYS** turn all controls "OFF" before unplugging the dust collector.
- 6. TO REDUCE THE RISK OF ELECTRICAL SHOCK. do not use on wet surfaces. Do not expose to rain. Store indoors.
- 7. DO NOT use the dust collector to pick up flammable or combustible liquids, such as gasoline. **NEVER** use the dust collector near any flammable or combustible liquids.
- 8. **USE** the dust collector to pick up wood materials only. DO NOT use the dust collector to pick up metal shavings, metal dust, or metal parts.
- 9. **NEVER** use the dust collector to dissipate fumes or smoke. NEVER pick up anything that is burning or smoking, such as cigarettes, matches or hot ashes.
- 10. **DO NOT** pull the dust collector by the power cord. **NEVER** allow the power cord to come in contact with sharp edges, hot surfaces, oil or grease. Do not place anything over the top of the power cord.
- 11. DO NOT unplug the dust collector by pulling on the power cord. ALWAYS grasp the plug, not the cord.
- 12. DO NOT handle the plug or dust collector with wet hands.
- 13. REPLACE a damaged cord immediately. DO NOT use a damaged cord or plug. If the dust collector is not operating properly, or has been damaged, left outdoors or has been in contact with water, take it to an Authorized Service Center for service.

- 14. DO NOT use the dust collector as a toy. DO NOT use near or around children.
- 15. DO NOT insert fingers or foreign objects into the dust intake port or discharge port. Keep hair, loose clothing, fingers, and all body parts away from openings and moving parts of the dust collector.
- 16. DO NOT use with any opening blocked; keep openings free of dust, lint, hair, and anything that may reduce air flow.
- 17. **NEVER** use the dust collector without the dust collection bag in place and properly secured.
- 18. **ALWAYS** use intake cover to cover dust port when the dust collector is not in use or mounted to a supporting surface for storage.
- 19. PERIODICALLY INSPECT dust bag for any cuts, rips or tears. NEVER operate the dust collector with a damaged bag or vacuum hose.
- 20. **USE EXTRA CARE** when cleaning on stairs.
- 21. TURN THE MACHINE "OFF" AND DISCONNECT THE MACHINE from the power source before installing or removing accessories, before adjusting or changing set-ups, or when making repairs.
- 22. TURN THE MACHINE "OFF", disconnect the machine from the power source, and clean the table/work area before leaving the machine. LOCK THE SWITCH IN THE "OFF" POSITION to prevent unauthorized use.
- 23. ADDITIONAL INFORMATION regarding the safe and proper operation of this tool is available from the Power Tool Institute, 1300 Summer Avenue, Cleveland, OH 44115-2851. Information is also available from the National Safety Council, 1121 Spring Lake Drive, Itasca, IL 60143-3201. Please refer to the American National Standards Institute ANSI 01.1 Safety Requirements for Woodworking Machines and the U.S. Department of Labor OSHA 1910.213 Regulations.

## SAVE THESE INSTRUCTIONS. Refer to them often and use them to instruct others.

## **UNPACKING AND CLEANING**

Carefully unpack the tool and all loose items from the shipping container(s). Remove the protective coating from all unpainted surfaces. This coating may be removed with a soft cloth moistened with kerosene (do not use acetone, gasoline or lacquer thinner for this purpose). After cleaning, cover the unpainted surfaces with a good quality household floor paste wax.

### Fig. 2

- 1 Swivel Casters (4)
- 2 Base
- 3 "U" Brackets For Filter Bag Support Rods (2)
- 4 Left-Hand Drum
- 5 Dust Chute
- 6 Right-Hand Drum
- 7 Eight-Hole Rubber Gaskets (2)
- 8 Ten-Hole Rubber Gasket

#### Fig. 3

- 9 Dust Collection Bags (2)
- 10 Filter Bags (2)
- 11 Drum Supports (4)
- 12 Blower and Motor Assembly
- 13 Intake Ports
- 14 Intake Port Caps (4)
- 15 Support Rods (2)
- 16 Support Rod Extensions (2)
- 17 Bag Locking Bands (4)
- 18 Lower Dust Bag retaining Clips (8)

#### Hardware (\*not shown)

- \* 5/16 18 x 5/8 hex head screws (66)
- \* 5/16 lockwashers (66)
- \* 5/16 18 hex head nuts (12)
- \* M4 x 12 sheet metal screws (4)
- \* 5/16 x 15/16 O.D. flat washers (16)
- \* -1/4-20x5/8" Hex Head Screws (16)
- \* -1/4" Lockwashers (16)
- \* -1/4"-20 Hex Nuts (16)

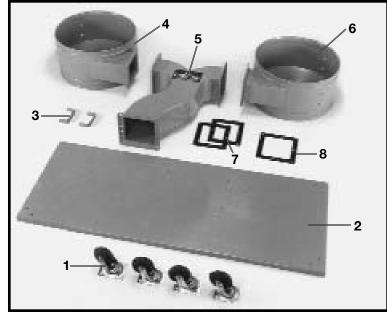


Fig. 2



Fig. 3

## **ASSEMBLY**

WARNING: FOR YOUR OWN SAFETY, DO NOT CONNECT THE MACHINE TO THE POWER SOURCE UNTIL THE MACHINE IS COMPLETELY ASSEMBLED AND YOU READ AND UNDERSTAND THE ENTIRE INSTRUCTION MANUAL.

## ASSEMBLING CASTER ASSEMBLIES TO BASE

Align the holes in caster assembly (A) Fig. 5, with four holes in support stand (B) located on the underside of base (C). Place a lockwasher (E) Fig. 5 onto a hex head screw (D), insert the hex head screw through the caster (A), and thread into hole in base (B). Repeat this process for the three remaining holes in the caster and base. Assemble the three remaining caster assemblies to the base in the same manner. Fig. 6 shows a caster assembled to the base.

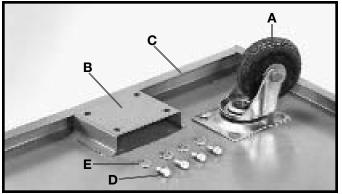


Fig. 5



Fig. 6

## ASSEMBLING BLOWER AND MOTOR ASSEMBLY TO BASE

- 1. Set motor assembly (A) Fig. 7, on base (B).
- 2. Align mounting holes in the motor assembly (A) Fig. 7, with four pre-drilled holes in base (B). Place a lockwasher (D) Fig. 7, and a flat washer (E) onto hex head screw (C). Insert the hex head screw through the hole in the motor assembly, thread the screw into the hole in the base, and tighten securely. Repeat this process for the three remaining holes.
- 3. Fig. 8, illustrates the motor assembly fastened to the base.

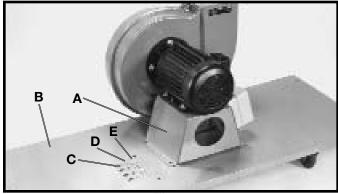


Fig. 7



Fig. 8

4. Apply a bead of silicone sealant around flange of chute (F) Fig. 9. Align holes in ten-hole gasket (G) Fig. 9, with mounting holes in blower flange (F) and press gasket onto flange as shown.

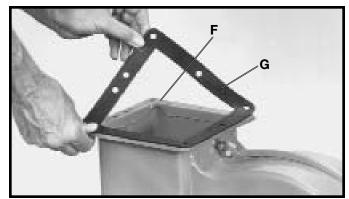


Fig. 9

5. Align mounting holes in dust chute (H) Fig. 10, with gasket (G), assembled in STEP 4. Place a lockwasher onto a hex head screw, insert screw through the chute and gasket, thread the screw into the motor assembly, and tighten securely. Repeat this process for the 9 remaining holes. Fig. 11 shows the dust chute assembled to the motor assembly.

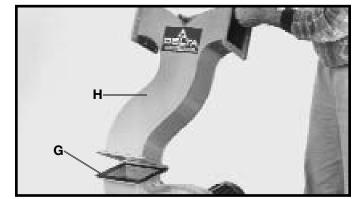


Fig. 10



Fig. 11

6. Align the two holes in "U" bracket (L) Fig. 12, with two pre-drilled holes (M) in left hand drum. Place a lockwasher (R), then a flat washer (S) onto the hex head screw (P). Insert the hex head screw through the hole in the "U" bracket and the hole in the drum, thread the hex nut (T) onto the hex head screw and tighten securely as shown in Fig. 13. Repeat this process for the remaining hole. Assemble the remaining "U" bracket to right hand drum in the same manner.

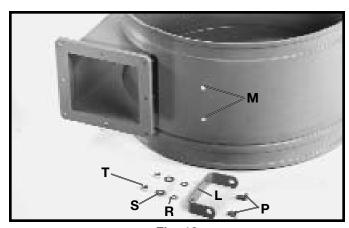


Fig. 12

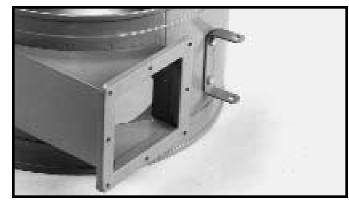


Fig. 13

7. Apply a bead of silicone sealant around flange of chute (H) Fig. 14. Align holes in eight-hole gasket (K) Fig. 14, with mounting holes in chute (H) and press gasket (K) onto flange as shown.

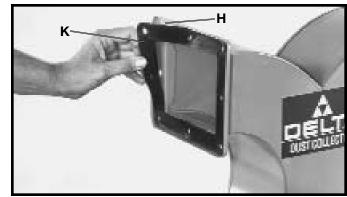


Fig. 14

- 8. Align mounting holes in left hand drum (N) Fig. 15, with gasket (K), assembled in STEP 7. Place a lockwasher onto a hex head screw, and insert screw through chute (H), thread screw into drum (N), and tighten securely as shown in Fig. 16. Repeat this process for the seven remaining holes.
- 9. Assemble the remaining eight hole gasket and right hand drum to the blower chute in the same manner.
- 10. Fig. 17, illustrates the drums assembled to the dust chute.

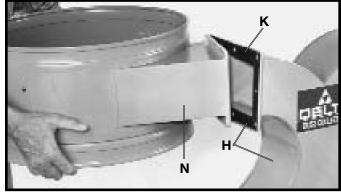


Fig. 15

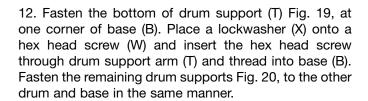


Fig. 16



Fig. 17

11. Align two mounting holes in the top of drum support arm (T) Fig. 18, with two pre-drilled holes in drum (N) and fasten drum support arm (T) to drum (N). Place a lockwasher then a flat washer onto the hex head screw, insert the hex head screw through the hole in upper drum support and drum and thread a hex nut onto the hex head screw. **NOTE:** Do not completely tighten mounting hardware at this time.



- 13. Tighten all mounting hardware at this time.
- 14. Attach the lower dust bag retaining clip (A) Fig. 20, to the dust collector drum. Align the two holes in the retaining clip (A) Fig. 20, with the two holes in the drum. Insert a 1/4-20x5/8" hex head screw through the holes in the retaining clip and the holes in the drum. Place a 1/4" flat washer onto the screws, and thread 1/4-20 hex nut on the screws and tighten securely. Repeat this process for the three remaining sides of the drum and the other drum.

14. Fig. 21, illustrates four drum supports assembled to the drums and base.



Fig. 21

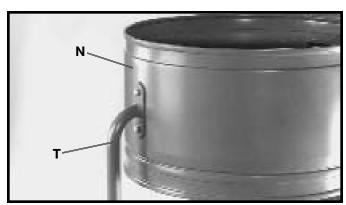


Fig. 18

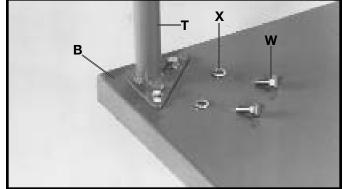


Fig. 19

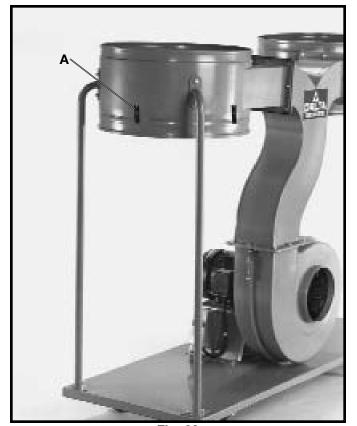


Fig. 20

# ASSEMBLING FILTER AND DUST COLLECTION BAGS TO DRUM

- 1. Hook the loop on the top of filter bag (A) Fig. 22, onto filter bag support rod (B) as shown.
- 2. Assemble extension rod (C) Fig. 23, into the end of filter bag support rod (B). Raise support rods (B) and (C), with filter bag (A) attached and place end of extension support rod into holes of bracket (D). **NOTE:** Flared end of filter bag extension rod will prevent the rod from sliding through bracket.

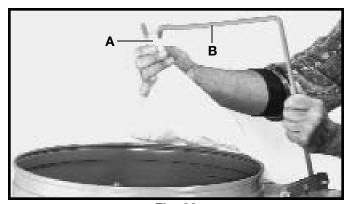


Fig. 22

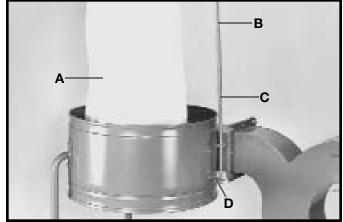


Fig. 23

3. Insert band (F) Fig. 24, through the loops of filter bag. Position open end of filter bag (A) Fig. 24, over upper lip of drum (E) and fasten with clamp (G) as shown in Fig. 25. **NOTE:** Make certain band (F) is positioned in the channel of drum (E) before fastening clamp (G).

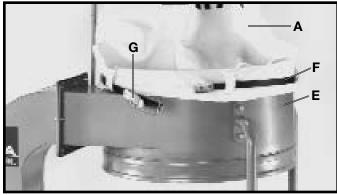


Fig. 24

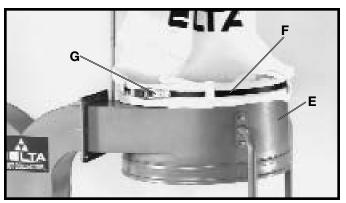


Fig. 25

- 4. Pull up on each retaining clip (A) Fig. 26, and insert the dust collection bag (B) underneath each retaining clip to hold the dust collection bag in place.
- 5. Place the locking clamp (C) Fig. 26 around dust collection bag and dust collector drum and lock in place.

NOTE: Make certain locking clamp is positioned in the channel of the dust collector drum before locking clamp.

6. Assemble the remaining filter bag and dust collection bag to the drum at the other side of the dust collector in the same manner.

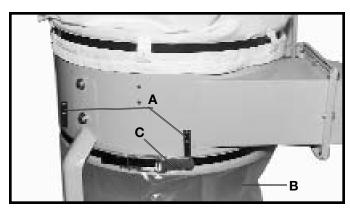


Fig. 26

6. Fig. 28, illustrates the filter and dust collection bags assembled to the dust collector.



## ASSEMBLING DUST INTAKE PORT TO BLOWER AND MOTOR ASSEMBLY

## MAKE CERTAIN THE DUST COLLECTOR IS DISCONNECTED FROM THE POWER SOURCE.

- 1. Align the four holes in the dust intake port (A) Fig. 29, with the mounting holes in the lip of flange (B) of blower assembly and fasten with four sheet metal screws (C).
- 2. Fig. 30, illustrates the dust intake ports assembled to the blower assembly.

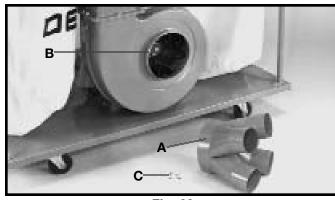


Fig. 29

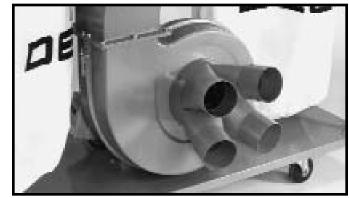


Fig. 30

3. Four dust intake port caps (D) Fig. 31, are supplied with the dust collector. These caps should be installed to cover any unused intake ports or when the dust collector is not in use.

WARNING: DO NOT INSERT FINGERS INTO THE INTAKE PORTS WHEN UNIT IS OPERATING.

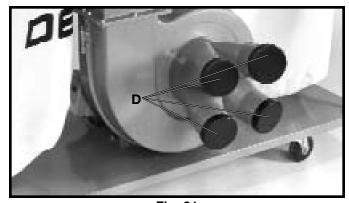


Fig. 31

# CONNECTING MACHINE TO POWER SOURCE ELECTRICAL CONNECTIONS

The motor rating of your dust collector is either 230/460 Volt, Three Phase; or 230 Volt, Single Phase. Before connecting the motor to the power line, make sure the switch is in the "OFF" position and be sure that the electric current is of the same characteristics as indicated on the tool. All line connections should make good contact. Running on low voltage will damage the motor. WARNING: THIS TOOL MUST BE GROUNDED WHILE IN USE TO PROTECT THE OPERATOR FROM ELECTRIC SHOCK.

## MODEL 50-852 THREE PHASE INSTALLATION

Your dust collector is supplied with a motor and controller; however, it is not supplied with a power cord and plug.

- 1. To connect the dust collector to a power system, remove controller cover (A) Fig. 32.
- 2. Bring three phase power line through the access hole (B) Fig. 32, in the top of controller box and connect the three power lines to terminals (C) Fig. 33, and the green ground wire to ground screw (D).
- 3. After connecting the power cord to the machine, make certain the rotation of the motor is in the proper direction by viewing the rotation of the blower fan. The fan should rotate in a clockwise direction. WARNING: DO NOT INSERT FINGERS OR ANY FOREIGN OBJECT INTO THE DUST INTAKE PORT. Rotation of the motor can be reversed by interchanging any two of the three incoming power lines connected to terminals (C) Fig. 33.

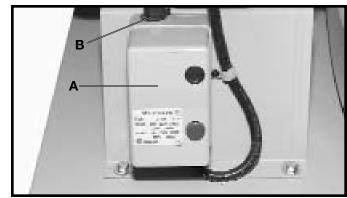
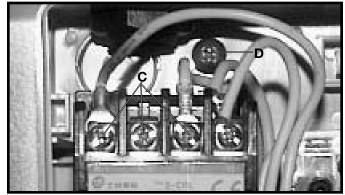


Fig. 32



Fia. 33

## MODEL 50-853 SINGLE PHASE INSTALLATION

Your dust collector is supplied with a motor and controller; however, it is not supplied with a power cord and plug.

- 1. To connect the dust collector to a power system, remove controller cover (A) Fig. 34.
- 2. Bring the single phase power line through the access hole (B) Fig. 34, in the top of controller box and connect the two power lines to terminals (E) Fig. 35, and the green ground wire to ground screw (F).
- 3. After connecting the power cord to the machine, the fan should rotate in a clockwise direction. WARNING: DO NOT INSERT FINGERS OR ANY FOREIGN OBJECT INTO THE DUST INTAKE PORT.

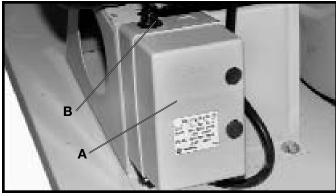


Fig. 34

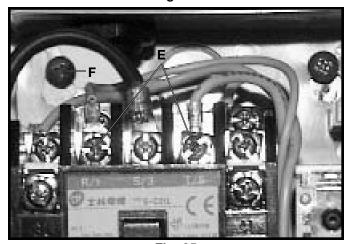


Fig. 35

## OPERATING CONTROLS

## ON/OFF SWITCH (Model 50-852)

The "on/off" switch is located on the side of the motor stand. To turn the dust collector "ON", push button (A) Fig. 36. To turn the dust collector "OFF", push button (B).

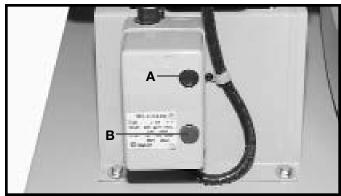


Fig. 36

## ON/OFF SWITCH (Model 50-853)

The "on/off" switch is located on the side of the motor stand. To turn the dust collector "**ON**", push button (A) Fig. 37. To turn the dust collector "**OFF**", push button (B).

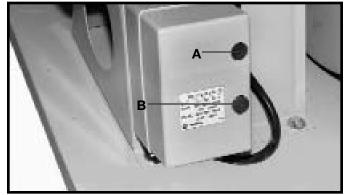


Fig. 37

## **MAINTENANCE**

**WARNING:** Before any maintenance or service is performed, be sure that unit is disconnected from power source to prevent accidental starting.

## **MOTOR MAINTENANCE**

Removing dust and dirt: Blow off motor with low pressure air to remove dust or dirt. Air pressure above 50 P.S.I. should not be used, as high pressure may damage insulation and blow dirt under loosened tape. The operator performing this cleaning function should always wear appropriate eye protective goggles. Built-up dust can cause excessive insulation temperatures, thereby affecting motor life.

## **NOTES**

### **ACCESSORIES**

A complete line of accessories is available from your Delta Supplier, Porter-Cable · Delta Factory Service Centers, and Delta Authorized Service Stations. Please visit our Web Site **www.deltamachinery.com** for a catalog or for the name of your nearest supplier.



**WARNING:** Since accessories, other than those offered by Delta, have not been tested with this product, use of such accessories could be hazardous. For <u>safest operation</u>, only Delta recommended accessories should be used with this product.



## PARTS, SERVICE OR WARRANTY ASSISTANCE

All Delta Machines and accessories are manufactured to high quality standards and are serviced by a network of Porter-Cable · Delta Factory Service Centers and Delta Authorized Service Stations. To obtain additional information regarding your Delta quality product or to obtain parts, service, warranty assistance, or the location of the nearest service outlet, please call 1-800-223-7278 (In Canada call 1-800-463-3582).



### **Two Year Limited Warranty**

Delta will repair or replace, at its expense and at its option, any Delta machine, machine part, or machine accessory which in normal use has proven to be defective in workmanship or material, provided that the customer returns the product prepaid to a Delta factory service center or authorized service station with proof of purchase of the product within two years and provides Delta with reasonable opportunity to verify the alleged defect by inspection. Delta may require that electric motors be returned prepaid to a motor manufacturer's authorized station for inspection and repair or replacement. Delta will not be responsible for any asserted defect which has resulted from normal wear, misuse, abuse or repair or alteration made or specifically authorized by anyone other than an authorized Delta service facility or representative. Under no circumstances will Delta be liable for incidental or consequential damages resulting from defective products. This warranty is Delta's sole warranty and sets forth the customer's exclusive remedy, with respect to defective products; all other warranties, express or implied, whether of merchantability, fitness for purpose, or otherwise, are expressly disclaimed by Delta.

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Fax: (602) 437-2200

#### **CALIFORNIA**

Ontario 91761 (Los Angeles) 3949A East Guasti Road Phone: (909) 390-5555 Fax: (909) 390-5554

San Leandro 94577 (Oakland) 3039 Teagarden Street Phone: (510) 357-9762 Fax: (510) 357-7939

Arvada 80003 (Denver) 8175 Sheridan Blvd., Unit S Phone: (303) 487-1809 Fax: (303) 487-1868

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